

CLIMATOLOGICAL DATA FOR AUGUST, 1913.

DISTRICT NO. 10, GREAT BASIN.

ALFRED H. THIESSEN, District Editor.

GENERAL SUMMARY.

The dominating feature of the weather for August in the Great Basin was the large number of local storms, causing delayed train service in Nevada, and landslides and floods, which were attended by damage in both Utah and Nevada. The temperature for the district averaged slightly below normal, but nevertheless August was the warmest month of the summer season. Weather conditions as a rule were said to be favorable to crop growth and for all farming operations; but considerable local damage was sustained by floods carrying large amounts of gravel and sand over cultivated fields. Irrigation water in Utah was reported as sufficient for all needs.

The average number of clear days for the district was 15; partly cloudy days, 11; cloudy days, 5; and rainy days, 5.

TEMPERATURE.

The mean temperature for the district averaged 68.9°, which is 0.4° below normal, and varied from 53.2° at Park City, Utah, to 83.4° at Jean, Nev. The warmest weather occurred in the more level portions of the Utah area and in the central, western, and southern portions of the Nevada area; the Wyoming, Oregon, and mountainous portion of the Utah areas were the coolest. There were wide departures from the normal temperatures at the various stations. The greatest deficiency was 9.2° at Beowawe, Nev., whose mean for the month was 65.9°; and the greatest excess was 5.0° at McGill, Nev., whose mean was 69.6°.

The month began with nearly normal temperatures in all parts of the district, the afternoon temperatures being quite high, but the night temperatures falling to the forties, brought the average down to normal. The coolest weather of the month occurred from the 13th to the 20th, and freezing temperatures were recorded at many stations, most of which were at the higher elevations. The warmest portion of the month was from the 20th to the 22d, but a few stations reported their highest temperatures on the 28th or 29th.

The highest temperatures that occurred in the various areas of the several states in this district were as follows: 95° on the 28th at Cokeville, Wyo.; 102° on the 22d at Grace, Idaho; 102° on the 22d at Low, Utah; 106° on the 5th and 21st at Jean, Nev.; 94° on the 24th at Cliff and Silver Lake, Oreg.; and 86° on the 6th at Bridgeport, Cal. The lowest were 31° on the 16th at Cokeville, Wyo.; 40° on the 17th at Weston, and on the 15th, 18th, and 19th at Grace, both in Idaho; 26° on the 13th and 17th at Park City, Utah; 25° on the 26th and 30th at Geyser, Nev.; 20° on the 18th at Cliff, Oreg.; and 30° on the 17th at Bridgeport, Cal.

PRECIPITATION.

The average precipitation for the district was 0.99 inch, or 0.18 inch above normal. The smaller amounts occurred in the Idaho and Wyoming areas, and the larger in the eastern portion of the Utah and western portion of the Nevada areas. In the Nevada area the rainfall averaged 0.31 inch above normal, and twice that recorded in August last year. As the precipitation was mostly in the form of local showers, adjacent stations reported widely different amounts and on different dates. Also while certain stations reported amounts much in excess of their normals, it is quite probable that the amounts that fell on some of the elevated watersheds where no stations are maintained, were very heavy and exceeded their normals by a much greater amount than did the recorded amounts at the less elevated stations where records are kept. The evidence of this is the great number of cloudbursts reported.

The greatest local monthly amount was 4.49 inches at Park City, Utah. At Low, Utah, no rain fell, and at a few stations traces only were reported. The largest 24-hour amount was 1.70 inches at Shields Ranch, Nev., on the 29th; many other stations reported over an inch in 24 hours.

Excepting a period from the 13th to the 20th, generally showery conditions prevailed throughout the month over the greater portion of the district. The greater amount of rain for the month fell during the last decade.

LOCAL STORMS.

The observer at Moroni, Utah, Mr. B. F. Eliason, writes:

One of the worst storms ever known at this place occurred on the 4th; its area was 1½ miles wide and from 3 to 5 miles long. The rain gage caught 1.54 inches in 1 hour and 20 minutes. The storm was accompanied by high winds and by hail measuring one-half inch in diameter. I was in the center of the storm and feel convinced that 4.50 inches fell in 3 hours and 15 minutes. The rain gage was at the edge of the storm which accounts for the smaller amount recorded. Leaves were beaten from the garden truck, fruit was severely bruised, barley that was overripe was shattered from the stalks, corn was torn in shreds, and land lying fallow was badly washed.

On August 9 it was reported that every canyon west of Richfield had its flood. It was estimated that 1,000 cubic feet of water per second passed through the culvert and over the canal bridge from the Flat Canyon flood. To the north and south of Richfield considerable damage was done to crops, and it was reported that the second cutting of alfalfa in all parts of the country around Richfield was greatly damaged.

The observer at Manti, Mr. J. M. Anderson, reported that on August 19 a flood came down from the foothills

and swept the north side of the town of Mayfield, carrying away some grain and hay that lay in its path. Another flood of much greater severity swept the south side of the town on August 26. This flood brought down from the hills sand, gravel, and bowlders in large quantities, which in some cases covered the land so completely that it will cost more than the land is worth to clear it, and in addition cut large canals across some of the best fields. One farmer lost 8 acres in this way. Grain in the shock and some alfalfa hay that lay in the course of the flood were carried away. The damage amounted to about \$5,000.

On Sunday evening, August 24, what is locally known as the "annual August flood" visited Ephraim, Utah, and broke all previous records in the matter of damaging property. The writer, two days after the flood, saw the record that it left in the form of mud, gravel, bowlders, and débris. Many cellars in the residence district were filled with mud, and lawns were covered so deep as to destroy the grass and small plants. The great force of the flood was shown by the large number and size of the bowlders, one of which was estimated to contain 25 cubic feet.

At Levan, Utah, on the 29th of August, one of the heaviest rain storms known in years passed over the Levan Ridge. On the west side of the valley large streams of water swept down every canyon and low place in the valley, crossing the farms on the west bench and doing considerable damage.

On August 30 a very severe storm broke over Ogden, Utah, flooding cellars and otherwise damaging property.

A house was struck by lightning, trees were split in twain, and for a time the city had the aspect of Venice. Street cars were stalled, and some were derailed by the glut of sand and mud washed down from the hills. The damage amounted to thousands of dollars.

A landslide occurred at Thisbe, Nev., on August 5, delaying the westbound Southern Pacific train several hours. It was caused by a heavy downpour of rain which dislodged hundreds of tons of earth and rock, including bowlders weighing over 10 tons each. The track was covered at intervals for a distance of more than 1,000 feet.

Another landslide occurred on the Nevada-California-Oregon Railroad and on the Highland ditch of the Reno Light & Power Co., both near Reno, on August 29.

A cloud-burst near Derby, Nev., caused 21 serious landslides on August 4. A storm struck the canyon with terrific force between the Truckee Dam and Derby, where the canal is cut out of the hillside. Not less than 21 slides went into the canal, several of them as much as 50 feet long, and filling the canal to a depth of 7 feet.

A cloud-burst occurred at Ely, Nev., on the 26th, causing the loss of one life and the destruction of much property. Two days later a second flood occurred at the same place. The water on both occasions ran a foot deep as a rule in the streets and in places 3 feet deep. The light and power plant was stopped in its operation, and the city's supply of water cut off, as the ditch supplying the water was filled with mud and débris.

TABLE 1.—Climatological data for August, 1913. District No. 10, Great Basin.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.1 inch or more.	Number of clear days.	Number of partly cloudy days.			Number of cloudy days.
Wyoming.																				
Border	Lincoln	6,085	11																	S. W. Condrion.
Cokeville	do	6,204	3	61.4		95	28	31	16	54	0.60		0.40	0.0	3	29	1	0	w.	E. J. Tuckett.
Evanston	Uinta	6,860	17	62.2	+ 1.2	89	22	35	19	47	0.95	± 0	0.22	0.0	8	22	9	0	sw.	Frank Tucker.
Idaho.																				
Geneva	Bear Lake	6,171	4								0.35		0.24	0	3	24	7	0		F. W. Boehme.
Grace	Bannock	5,400	6	69.2		102	22	40	15	54	0.32		0.17	0	3	18	6	8		E. W. Joy.
Paris	Bear Lake	5,946	18																	John Norton.
Weston	Franklin	4,460	14	70.8	+ 4.0	99	22	40	17	52	0.23	- 0.83	0.11	0	3	23	7	1	s.	Wm. T. Chatterton.
Utah.																				
Alpine	Utah	4,900	14								0.25	- 1.00	0.25	0	1	26	4	1		T. F. Carlisle.
Beaver	Beaver	6,000	9	64.2		93	19	34	16	55	2.79		0.60	0	16	6	25	0		Henry Baker.
Black Rock	Millard	4,872	9	69.5		95	20	39	19	50	1.08		0.72	0	4	8	17	6		W. D. Livingston.
Brigham City	Boxelder	4,305	1	74.8		94	21	52	10	31	0.30		0.16	0	2					M. Merrell Valentine.
Burrville	Sevier	6,800	2	60.6		80	6	34	14	45	2.06		0.45	0	9					F. R. Curtis.
Castle Rock	Summit	6,244	8								1.11		0.53	0	6	19	7	5		David Moore.
Cedar City	Iron	5,750	8	71.4		90	7	52	2	32	1.68		0.38	0	10	8	10	13	sw.	Parley Dalley.
Center	Tooele	4,250	2	70.6		94	22	42	15	44	1.27		0.33	0	7	14	15	2	s.	L. C. Peterson.
Clarkston	Cache	5,930	1								0.73		0.30	0	3	15	9	7		W. J. Griffiths.
Corinne	Boxelder	4,240	43	74.6	+ 0.2	97	16	45	17	51	0.31	- 0.58	0.26	0	2	26	5	0	sw.	A. C. Murphy.
Deseret	Millard	4,541	13	73.8	+ 2.6	98	20	45	15	46	0.65	+ 0.08	0.40	0	3	14	11	6	s.	S. W. Western.
Elberta	Utah	4,650	11	78.4	- 0.3	95	1	48	16	43	0.49	- 0.18	0.21	0	8	14	16	1	s.	D. C. Walkey.
Enterprise	Washington	5,750	7								1.57		0.75	0	6	6	21	4		Jas. E. Hall.
Erekson	Tooele	4,850	1								1.15		0.54	0	7					N. W. Erekson.
Farlington	Davis	4,267	12	72.0	+ 1.6	93	25	47	17	43	0.31	- 0.56	0.26	0	2	26	5	0	sw.	Chas. Boylin.
Fillmore	Millard	5,100	21	74.0	- 0.4	97	19	49	3	37	1.50	+ 0.55	0.47	0	10					J. J. Starley.
Garland	Boxelder	4,248	1	73.6		99	21	47	17	42	1.42	- 0.55	0.78	0	4	10	21	0	s.	Heber C. Cutler.
Garrison	Millard	4,850	9	70.0		92	26	44	10	41	1.38		0.48	0	6	5	0	15	s.	E. M. Smith.
Government Creek	Tooele	5,277	12	72.6	+ 0.7	93	20	48	15	37	0.77	- 0.47	0.15	0	9	15	14	2	s.	Walter James.
Granger	Salt Lake	4,560	1								0.67		0.27	0	7	12	18	1	sw.	Max Greene.
Grantsville	Tooele	4,220	6								1.65		1.36	0	7	15	11	5	s.	Monto Barrus.
Grouse Creek	Boxelder	5,148	3								1.00	- 0.04	0.30	0	6	19	11	1	s.	Phillip Paskett.
Heber	Wasatch	5,593	20	65.0	+ 0.2	90	22	34	17	50	1.00	- 0.04	0.30	0	6	19	11	1	s.	John Crook.
Henefer	Summit	5,301	13	64.8	+ 0.6	93	22	33	17	54	0.76	- 0.44	0.19	0	9	11	15	5	w.	Wm. Brewer.
Hooper	Weber	4,436	2								1.93		1.71	0	2					T. M. Jones, jr.
Howell	Boxelder										0.75		0.65	0	2					Jno. L. Baxter.
Ibapah	Tooele	7,500	8	68.6		96	19	35	19	61	0.75		0.50	0	4	14	16	0	s.	W. M. Chastain.
Iber	Millard	5,250	2																	John J. Watson.
Iosepa	Tooele	4,356	2	75.4		100	22	50	1	42	0.25		0.20	0	2	8	7	16	n.	Geo. K. Hubbell.
Junction	Plute	6,000	1								1.43		0.41	0	6	20	11	0	s.	Jos. Jensen.
Kaneoh	Millard	5,250	6								1.25		0.37	0	8					Geo. Crane.
Kelton	Boxelder	4,230	33	66.4	- 7.8	95	22	35	18	53	0.20	± 0.00	0.20	0	1	9	20	2		F. W. Klock.
Lemay	do	4,221	2	80.0		94	22	64	15	25	0.62		0.62	0	1	19	8	4		E. J. Ineck.
Levan	Juab	5,010	23	70.2	+ 0.3	90	1	47	10	40	1.64	+ 0.89	0.39	0	11	11	15	5	sw.	Wm. Brown.
Logan	Cache	4,507	22	71.6	+ 0.9	93	22	50	11	36	0.14	- 0.63	0.11	0	2					Experiment Station.
Low	Tooele	4,602	2	78.8		102	22	55	16	39	0.00		0.00	0	0	26	5	0		Agent W. P. Co.
Lucin	Boxelder	4,504	6	72.0		95	22	48	16	43	0.29		0.20	0	3	24	7	0		E. C. Puryear.
Manti	Sanpete	5,575	18	67.84	- 0.5	97	19	46	10	38	0.98	+ 0.29	0.26	0	8	5	0	26		J. M. Anderson.
Maple Creek	Utah	4,890	2								0.79		0.24	0	5	18	11	2		L. W. Gillilan.
Marion	Summit	6,400	8																	J. Woolstenhulme.
Marysville	Plute	6,180	13	65.3	+ 0.4	88	18	37	15	48	1.50	- 0.17	0.35	0	7					Lafe King.
Meadowville	Rich	6,200	13	65.6	+ 2.0	90	29	35	18	49	0.25	- 0.77	0.10	0	3	25	2	4		J. S. Moffat.
Midlake	Boxelder	4,235	2	76.6		85	7	67	15	15	0.40		0.40	0	1	15	12	4		Mrs. S. M. Gibson.
Midvale	Salt Lake	4,365	1	74.6		100	22	44	14	46	0.47		0.37	0	4	13	14	4	s.	C. McGhie.
Millford	Beaver	4,962	5																	F. J. Bandreau.
Mills	Juab	4,911	1	71.2		95	23	38	17	54	1.08		0.38	0	8					Geo. McCune.
Millville	Cache	4,848	18								0.71	- 0.21	0.34	0	3	26	5	0	sw.	Fred Yeates.
Mtnersville	Beaver	5,070	11								1.29	+ 0.09	0.34	0	9	5	24	2	sw.	Fred R. Pryor.
Modena	Iron	5,479	12	68.8	+ 0.2	89	21	41	17	42	1.07	- 0.76	0.38	0	8	8	16	7	sw.	U. S. Weather Bureau.
Morgan	Morgan	5,068	8	68.5		94	22	40	18	49	0.35		0.22	0	2					E. O. Kingston.
Moroni	Sanpete	6,000	5	69.54		90	21	52	18	32	2.36		1.58	0	5	34	14	54	sw.	B. F. Eliason.
Mosida	Utah	4,510	1	76.8		92	13	60	29	30	0.44		0.22	0	2	27	0	4		L. B. Curtis.
Nephi [near]	Juab	5,119	8	71.8		93	23	47	11	42	1.68		0.87	0	6	8	20	2	s.	Experiment Station.
New Castle	Iron	5,150	1																	T. W. Jones.
Oak City	Millard	4,900	6																	Peter Nielson.
Ogden	Weber	4,310	42	71.6	- 5.1	97	21	43	15	47	1.75	+ 1.19	1.04	0	3	13	13	5	e.	A. Van De Graaf.
Panguitch	Garfield	6,560	1	82.4		82	7	35	15	46	2.12		0.70	0	9	15	13	3	s.	Harry L. Stremble.
Park City	Summit	7,000	8	53.2		81	18	26	13	52	4.49		1.09	0	9	3	22	6		Gertrude Evans.
Park Valley	Boxelder	5,200	2																	C. W. Goodlife.
Parowan	Iron	5,970	22	68.0	- 1.3	89	19	44	15	37	3.83	+ 2.35	0.73	0	15	7	5	19		Alex Matheson.
Payson	Utah	4,637	9								0.54		0.20	0	4	15	7	9	sw.	D. L. Coombs.
Pelican Point	do	4,600	1								0.66		0.31	0	3	24	6	1		B. M. Mendenhall.
Pineview	Summit	8,250	2	82.2		90	22	34	15	49	0.94		0.48	0	3					Granville Deming.
Pinto	Washington	5,807	15	64.0	- 0.9	87	5	30	15	52	2.80	+ 0.76	0.88	0	9	5	7	17	s.	J. H. Harrison.
Plantiful	Tooele	4,262	1																	C. L. Drumm.
Promontory	Boxelder	4,913	38																	

TABLE 1.—Climatological data for August, 1913. District No. 10—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		Prevailing wind direction.
Utah—Continued.																				
Tooele.....	Tooele.....	4,900	17	72.2	- 0.4	91	22	50	15†	32	0.23	- 0.80	0.08	0	4	6	2	23	e.	E. A. Bonelli.
Utah Lake pumping station.	Utah.....	4,500	5																	W. A. Knight.
Vernon.....	Tooele.....	5,500	2								2.29		1.34	0	8	10	21	0	sw.	Glynn Bennion.
Wendover.....	do.....	4,237	1	74.0		99	21	42	16	43	0.35		0.81	0	2					J. S. Cooper.
Whiskey Creek.....	Millard.....	4,850	2																	Geo. Stevens.
Winder.....	Garfield.....	8,000	1								2.75		0.80	0	9					Rollo Adair.
Woodruff.....	Rich.....	6,510	10																	A. L. Eastman.
Nevada.																				
Austin.....	Lander.....	6,594	24	69.2	+ 0.9	91	6	43	13	37	2.70	+ 2.15	1.30	0	7	17	5	9	se.	F. O. Booe.
Battle Mountain.....	do.....	4,843	42	73.8	- 0.3	104	21	40	17	56	0.37	+ 0.23	0.20	0	4	25	2	4		Southern Pacific Co.
Beowawe.....	Eureka.....	4,905	42	65.9	- 9.2	96	21	31	15†	58	1.06	+ 0.91	1.00	0	2	15	14	2		Do.
Carlin.....	Elko.....	5,232	42	69.7	+ 0.9	100	23	36	15	52	0.00	- 0.18	0.00	0	0	20	9	2		Do.
Cherry Creek.....	White Pine.....	6,450	5	68.4		92	21	45	12	41	1.33		0.51	0	9	16	4	11	w.	J. H. Leishman.
Clover Valley.....	Elko.....	6,000	12	65.6	0	91	22	38	15	45	1.33	+ 0.73	0.94	0	5	12	18	1		I. F. Wiseman.
Columbia.....	Esmeralda.....	5,750	6	72.4		95	9	49	10	44	1.71		0.36	0	10	15	14	2	se.	A. Booth.
Dry Farm.....	Elko.....	5,000	1																	Walfrid Sohlman.
Elko.....	do.....	5,432	42	69.9	+ 1.8	105	24	40	15	56	T.	- 0.30	T.	0	0	22	4	5	sw.	Western Pacific Co.
Eureka.....	Eureka.....	6,500	15	67.8	- 2.3	92	21	40	15	42	0.81	+ 0.02	0.22	0	8	7	14	10	s.	Clay Simms.
Fallon.....	Churchill.....	3,965	19	71.8	- 0.2	96	24	42	17	48	0.94	+ 0.88	0.42	0	10	15	11	5	se.	Experiment station.
Fernley.....	Lyon.....	4,200	40	72.0	- 3.2	98	6	43	13†	50	0.70	+ 0.53	0.28	0	6	15	15	1		Mrs. G. A. Steele.
Gardnerville.....	Douglas.....	4,830	22	65.4	- 2.8	90	25	33	4	46	0.57	+ 0.37	0.57	0	1				w.	Forest Service.
Gerlach.....	Washoe.....	3,931	0																	Western Pacific Co.
Geyser.....	Lincoln.....	6,058	9	63.2		102	2	25	26†	67	0.28		0.14	0	3	9	17	5	s.	Mrs. J. F. Wambolt.
Glenbrook.....	Douglas.....	6,420	4																	C. C. Henningsen.
Golconda.....	Humboldt.....	4,697	34	74.3	+ 1.7	97	7	48	19	44	0.13	+ 0.04	0.05	0	4	13	7	11	w.	Southern Pacific Co.
Halleck.....	Elko.....	5,631	20	66.8	+ 0.1	92	27	35	16	54	0.33	+ 0.14	0.15	0	3	15	14	2	w.	Do.
Jean.....	Clark.....	2,074	5	83.4		106	5†	56	1	42	0.52		0.26	0	4	16	14	1	sw.	Salt Lake Route.
Lahontan.....	Churchill.....	4,200	1	75.6		97	6	53	13	38	1.18		0.24	0	8	15	14	2	w.	Reclamation Service.
Lewers Ranch.....	Washoe.....	5,500	25	67.6	- 0.5	94	23	39	17	44	1.85	+ 1.51	0.75	0	4	7	20	4		Ross Lewers.
Lida.....	Esmeralda.....	6,037	0	67.6		90	7	42	14	40	2.00		0.79	0	6	13	17	1	se.	L. F. Detwiler.
Lovelock.....	Humboldt.....	3,977	19																	A. P. Tilford.
McDermitt.....	do.....	4,700	23	69.2	- 3.1	96	24	38	8	39	0.05	- 0.10	0.05	0	1	16	13	2	w.	F. M. Bullock.
McGill.....	White Pine.....	6,338	22	69.6	+ 5.0	89	6†	47	15	40	1.07	- 0.19	0.20	0	12	13	9	9	s.	R. E. Middagh.
Millett.....	Nye.....	6,002	5	67.2		91	5†	36	15	48	1.11		0.41	0	6	13	7	12	s.	Fred J. Jones.
Mina.....	Mineral.....	4,600	6	73.4		97	6	49	22†	54	0.35		0.20	0	3	20	0	11		Southern Pacific Co.
Oasis Ranch.....	Esmeralda.....	5,106	0	69.4		93	5	43	15	44	1.55		1.24	0	6	19	8	4	s.	A. S. Patterson.
Potts.....	Nye.....	6,990	20	64.5	- 3.3	89	6	35	15†	47	0.54	- 0.12	0.40	0	7	13	0	18	s.	Miss Marnie Potts.
Quinn River Ranch.....	Humboldt.....	4,850	11	68.6	+ 1.1	101	24	35	15	55	0.72	+ 0.58	0.45	0	2	19	5	7	n.	F. M. Payne.
Rebel Creek.....	do.....		1																	E. J. Hyatt.
Reno.....	Washoe.....	4,532	42	70.0	+ 3.0	93	24	44	17	42	1.08	+ 0.83	0.68	0	5	17	11	3	w.	Weather Bureau.
Soda Lake.....	Churchill.....	4,534	6																	Reclamation Service.
Tecoma.....	Elko.....	4,812	35	65.2	- 7.6	98	21†	29	15	61	0.19	- 0.04	0.15	0	3	10	20	1	sw.	Southern Pacific Co.
Tonopah.....	Nye.....	6,090	8	69.8		89	6	50	17	29	1.16		0.37	0	8	12	16	3	se.	Weather Bureau.
Wells.....	Elko.....	5,631	41	67.7	- 0.9	93	22†	38	13†	50	0.55	+ 0.35	0.35	0	3					Southern Pacific Co.
Winnemucca.....	Humboldt.....	4,432	34	71.0	+ 0.2	96	21	40	15	49	0.90	+ 0.63	0.41	0	7	22	9	0	sw.	Weather Bureau.
Oregon.																				
Burns.....	Harney.....	4,157	22																	J. C. Welcome, jr.
Cliff.....	Lake.....	4,300	6	61.5		94	24	20	18	61	0.65		0.16	0	6	16	13	2	nw.	John C. Green.
Faisley.....	do.....	4,500	10	65.8		91	23	35	18	44	0.79		0.38	0	4	23	6	2	n.	C. M. Sain.
Silver Lake.....	do.....	4,700	16	65.2	+ 4.3	94	24	28	18	53	1.10	+ 0.78	0.75	0	2	20	11	0	n.	G. W. Marvin.
California.																				
Bridgeport.....	Mono.....	6,500	0	59.9		86	6	30	17	53	1.65		0.80	0	12	18	5	8	sw.	A. F. Scott.
Cathedral Park.....	Eldorado.....	6,400	0	62.2		84	18	41	2	36	0.38		0.08	0	9	10	12	9	s.	Carl Fluegge.
Tahoe.....	Placer.....	6,240	2	58.0		81	6†	32	14†	38	0.40		0.25	0	4	22	7	3	w.	R. M. Watson.
Truckee.....	Nevada.....	5,819	41	62.9	- 0.4	85	28	40	16†	42	0.70	+ 0.59	0.40	0	3	25	1	5		Southern Pacific Co.

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—Daily precipitation for August, 1913. District No. 10, Great Basin.

Stations.	Watershed.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Wyoming.																																			
Border	Bear																																		
Cokeville	do.		T.	T.	.40						T.	T.	T.	T.							T.						.19	.01		T.	T.		0.60		
Evanston	do.		.03	.15	.05	.07						.22													.07				.15		.21		0.95		
Idaho.																																			
Geneva	Bear											.02																		.09	.24		0.35		
Grace	do.			T.		T.																					.10	.05			.17		0.32		
Paris	do.																																		
Weston	do.					.11							.09														.03						0.23		
Utah.																																			
Alpine	G. S. Lake			.25																													0.25		
Beaver	Sevier Lake	.50	.19	.12	.05					.03	.02	.12	T.									.09	.05	.17	.03	.02			.25	.19	.36	.60	2.79		
Black Rock	do.	.08	.07							.72																							1.08		
Brigham City	G. S. Lake																																0.30		
Burrville	Sevier Lake		.15	.04								.10									.20				.45	.41			.40	.10	.21		2.06		
Castle Rock	G. S. Lake		T.	.53	.23								.05											.15	.05	.10							1.11		
Cedar City	Desert		.23	.07	.01				.27	.20	.38											.09	.20	.04		.09							1.58		
Center	do.		.03	.33	.08	.23																	.19					.13			.28		1.27		
Clarkston	G. S. Lake												.28						.30											.15			0.73		
Corinne	do.																										T.			T.			T.		
Deseret	Sevier Lake	T.							.20				.40																		.05		0.65		
Elberta	G. S. Lake			T.	.04	.12			.21			.02	.04											.02	T.		.03	T.				.01	0.49		
Enterprise	Desert		.12						.76																								1.57		
Erekson	do.												.18										.02	.12	.10				.11	.02	.54		.08		
Farmington	G. S. Lake			.05	T.	T.																									T.		0.31		
Fillmore	Sevier Lake	.40	.02	T.	.01				.47				.06	.03									.02						.18		.01		.26		
Garland	G. S. Lake											.21																			.78	.09	1.42		
Garrison	Desert	.10				.07	T.			.30	T.		.35									T.	T.		T.	T.		T.	T.	T.	T.	.48	1.38		
Government Creek	do.	T.	.05	T.	T.					T.	T.	.03	.05										T.	T.		.03	.13	.10	.15	.12	T.	T.	.11	0.77	
Granger	G. S. Lake							.19																											
Grantsville	do.	.01		.11			.09				.27		.02																		.05	.02	0.67		
Grouse Creek	Desert										.03	T.	.02															T.	.02			.03	1.65		
Heber	G. S. Lake			.05	.30							.30													.15	T.		.10					1.00		
Henefer	do.	T.	T.	.10	.10																							.03	.19		.10	.01	0.76		
Hooper	do.																																1.93		
Howell	do.			.65										.10																			0.75		
Ibapah	Desert	.02				T.						.03																					0.75		
Ibox	do.																																		
Iosepa	do.			.05								T.																				.20		0.25	
Junction	Sevier Lake		.41		.13					.33	.22																					.20		1.43	
Kanosh	do.	.04	.10	.05						.37																								1.25	
Kelton	G. S. Lake											T.																						0.20	
Lemay	Desert																																	0.62	
Levan	Sevier Lake	.04	.02	.04	.01				.39		.02														.36	.06	.34				.62	T.	.01	.35	1.64
Logan	G. S. Lake																																	0.14	
Low	Desert																																	0.00	
Lucin	do.					T.						.08																						0.29	
Manti	Sevier Lake		.05				.16			.16	.26	T.												.06	T.	T.	.07	.06					1.60		
Maple Creek	G. S. Lake			.24						.11		.19																						0.79	
Marysville	Sevier Lake	.21		.33	.16							.33																						1.50	
Meadowville	G. S. Lake			T.	T.	T.	.10																											0.25	
Midlake	do.		.40																															0.40	
Midvale	do.			.37	T.	T.							.04																					0.47	
Millford	Sevier Lake																																		
Millville	G. S. Lake			T.																															
Mills	Sevier Lake		T.		.07	.03	T.					.30	.04	.15																				0.71	
Minersville	do.	.25	.02	.19	.12				.12	T.	T.		.34																					1.08	
Modena	Desert	.02		.03	.01			T.				T.																						1.29	
Morgan	G. S. Lake		.22																															1.07	
Moroni	Sevier Lake		T.	1.58					.24	.04	T.		T.																					0.35	
Mosida	G. S. Lake		.22	.22					.24			.12																						2.36	
Nephi (near)	do.		T.	.24																														0.44	
New Castle	Desert																																	1.68	
Oak City	Sevier Lake																																		
Ogden	G. S. Lake																																	1.75	
Panguitch	Sevier Lake	.50		.30	.03				.70	T.	.01	T.																						2.12	
Park City	G. S. Lake			.02	.09		.06	.04							.07	1.04																		4.49	
Park Valley	Desert												</																						

Stations.	Watershed.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
Nevada.																																		
Arthur	Humboldt					.10																				T.						.10	0.30	
Austin	Reese										.50											.20			1.10	T.	.20	.10				.40	.20	2.70
Battle Mountain	Humboldt		.03								.04																					.10	0.37	
Beowawe	do		.06																									1.00					1.06	
Carlin	do																																0.00	
Cherry Creek	do	.05				T.			.01		.15											.01	.10		.01		.28	.14	.22	.51			1.33	
Clover Valley	do					T.				.03	.02											T.	T.		.36	.24	.04	.22		.30	.32	.10	1.77	
Columbia	Desert	.08																																
Dry Farm	Humboldt																																	
East Rochester	do																																	
Elko	do																																	
Eureka	do		.06	.02	.01				T.	.12	.12															.22	T.			.08	.18		T.	
Fallon	Carson	T.	T.							.02	.02	.02										.06	.07			.08	.07	.17		.42	.01	.02		
Fernley	Truckee	T.	T.							.08	.12											T.	T.			.11	T.	.06		*	.28			
Gardnerville	Carson																																	
Gerlach	Desert																																	
Geyser	Humboldt				.10	T.	T.	T.			.04				T.											.14							0.28	
Glenbrook	Truckee																																	
Golconda	Humboldt				.02																										.02	.05	0.13	
Halleck	do																														.06		0.33	
Hilton	do																																0.00	
Jean	Desert																				*	.25				.26				.01			0.52	
Lahontan	Carson		.03	.09							.17											.23	T.			.05	.24	T.	.18	.19				

* Precipitation included in that of the next measurement.
† Separate dates of falls not recorded.
‡ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures for August, 1913. District No. 10, Great Basin.

Date.	Nevada.																									
	Cherry Creek.		Elko.		Eureka.		Fallon.		Geyser.		Jean.		McDermitt.		Millet.		Mina.		Reno.		Tecoma.		Tonopah.		Winnemucca.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....	83	59	94	43	84	60	81	61	100	40	98	56	85	64	75	42	94	55	80	58	90	46	74	57	84	53
2.....	83	50	93	46	84	51	90	52	102	40	99	58	83	51	85	60	95	58	82	52	90	45	82	58	86	48
3.....	83	56	96	48	84	52	93	56	98	41	97	57	88	56	86	57	96	59	88	52	90	42	87	63	91	56
4.....	85	52	92	42	84	49	94	54	94	43	102	62	87	59	89	48	95	60	88	55	90	41	87	61	92	60
5.....	83	54	93	48	88	55	93	52	90	38	106	65	87	54	91	49	95	60	91	52	90	42	88	64	92	56
6.....	86	52	92	48	88	49	95	54	90	35	103	64	88	57	91	48	97	60	93	53	88	37	82	63	93	55
7.....	85	55	96	48	87	50	95	57	90	38	100	65	83	50	89	48	94	54	92	57	87	39	89	66	91	58
8.....	84	50	90	44	85	47	92	56	90	30	99	65	85	50	89	47	94	53	90	56	88	34	83	64	88	50
9.....	75	58	92	43	79	53	89	55	95	32	99	66	80	50	83	57	91	52	87	56	90	40	79	58	85	55
10.....	79	55	91	48	80	51	87	53	89	34	101	65	85	55	82	55	93	55	82	55	87	32	80	54	86	53
11.....	80	50	92	42	79	45	87	49	90	30	100	66	84	56	85	46	91	54	85	49	87	37	79	52	86	56
12.....	79	45	90	45	84	45	89	50	91	36	98	62	83	50	86	47	92	53	81	50	85	36	81	58	86	49
13.....	84	48	90	44	81	49	89	49	90	30	99	68	81	46	80	46	90	51	76	47	90	32	73	63	84	46
14.....	79	47	88	48	80	46	78	47	92	38	98	65	71	41	81	49	91	52	76	45	85	36	78	54	75	48
15.....	81	46	90	40	82	40	82	46	92	35	91	64	77	41	82	36	93	54	78	44	84	29	73	52	80	40
16.....	80	52	94	46	82	47	83	47	92	38	93	65	79	40	83	40	94	50	80	45	88	36	77	53	83	40
17.....	84	47	90	44	83	45	83	42	83	38	95	65	78	45	84	39	93	51	82	44	86	32	79	50	82	50
18.....	86	50	94	43	85	49	86	48	84	38	98	66	77	38	83	38	95	54	84	49	88	33	80	55	84	43
19.....	88	47	94	44	87	45	91	47	89	35	98	67	86	56	88	40	95	55	88	50	90	31	84	57	90	50
20.....	88	56	98	42	86	54	94	48	92	38	99	67	90	53	91	45	96	54	93	51	95	34	86	66	94	45
21.....	92	58	102	49	92	53	94	56	95	40	106	68	93	60	87	55	92	50	90	55	98	37	87	59	96	60
22.....	88	62	99	52	89	53	91	57	98	40	103	69	91	62	83	52	92	49	90	57	95	44	83	53	92	64
23.....	88	58	99	54	88	57	95	60	95	34	103	70	91	55	87	59	94	51	92	60	97	45	84	59	95	59
24.....	86	60	105	49	87	57	96	63	99	36	105	68	96	63	86	56	93	52	93	61	95	42	82	59	96	60
25.....	84	59	89	50	85	58	92	63	92	30	101	69	85	62	83	55	95	54	89	60	98	45	81	61	88	65
26.....	83	56	89	50	83	53	94	64	90	25	103	72	88	57	85	54	93	55	90	59	95	47	81	60	90	58
27.....	83	55	94	45	85	58	91	61	90	30	102	76	86	57	78	57	94	54	80	60	96	45	72	55	88	60
28.....	84	52	98	43	89	52	92	58	90	30	102	76	90	58	89	49	91	49	90	58	95	42	80	61	92	59
29.....	85	56	100	45	89	61	89	58	95	28	100	78	88	60	84	51	92	50	91	58	95	45	82	59	91	57
30.....	75	59	86	50	80	54	88	62	89	25	102	79	87	55	80	58	91	49	86	89	94	50	76	55	86	61
31.....	78	55	89	53	78	52	88	58	85	30	98	72	85	54	81	54	92	50	84	58	92	44	73	55	87	58
Mns.....	83.3	53.5	93.5	46.3	84.4	51.3	89.4	54.3	91.6	34.7	99.9	66.9	85.1	53.4	84.7	49.6	93.3	53.5	86.2	53.7	90.9	39.4	81.3	58.2	88.2	53.9

Date.	Wyoming.						Utah.																				
	Border.		Evanston.		Weston, Idaho.		Black Rock.		Corinne.		Government Creek.		Marysvale.		Meadowville.		Modena.		Ogden.		Parowan.		Provo.		Salt Lake City.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
1.....			82	39	91	45	87	51	88	50	88	53	83	43	81	42	80	58	88	56	81	59	90	47	93	61	
2.....			80	48	89	56	85	48	90	58	85	56	82	48	85	51	79	50	87	54	77	52	90	54	85	66	
3.....			79	49	88	57	88	52	89	55	86	54	81	55	80	53	83	53	90	57	80	53	90	55	88	65	
4.....			75	48	91	55	91	53	91	55	87	59	82	47	80	49	85	58	90	54	83	53	96	56	84	64	
5.....			77	45	92	55	90	52	90	59	90	59	80	47	81	49	87	55	85	55	84	54	87	56	88	64	
6.....			75	43	87	48	93	48	92	56	87	54	85	47	79	45	88	57	80	51	84	53	85	50	85	62	
7.....			75	48	86	48	92	46	89	55	85	54	84	46	85	40	88	54	79	49	86	52	86	47	84	62	
8.....			74	39	86	44	93	43	86	50	86	52	85	46	82	44	88	53	84	50	85	52	86	45	84	62	
9.....			75	41	83	46	79	54	85	56	80	61	75	60	79	44	77	55	84	51	76	57	86	53	78	65	
10.....			78	42	85	41	85	46	88	58	85	54	80	65	81	42	81	51	87	50	77	47	85	47	85	58	
11.....			77	43	89	46	87	51	89	60	87	56	70	60	80	45	79	52	87	50	81	53	86	52	87	63	
12.....			75	45	86	54	87	56	87	48	86	56	85	44	81	53	84	50	88	56	85	52	87	53	88	65	
13.....			78	46	88	67	88	44	90	58	88	55	84	43	84	45	84	47	88	61	82	52	88	52	88	68	
14.....			77	43	86	52	88	43	85	67	86	57	85	45	80	50	82	52	85	64	81	52	87	41	83	62	
15.....			77	34	84	42	87	42	88	69	85	48	85	37	80	37	80	44	86	43	81	44	86	43	85	58	
16.....			73	37	88	42	88	40	97	46	85	52	85	37	82	39	81	43	87	50	82	49	88	44	88	62	
17.....			79	41	88	40	87	43	96	45	85	52	86	37	83	38	81	41	89	52	82	44	87	42	88	64	
18.....			79	39	89	41	89	40	95	58	87	52	88	37	84	35	85	43	89	46	84	46	90	41	88	64	
19.....			82	35	91	56	90	39	89	46	88	56	88	40	86	40	84	46	92	45	89	49	90	43	88	60	
20.....			83	52	97	46	95	49	92	56	93	64	84	48	85	54	87	58	95	57	87	60	91	57	92	70	
21.....			86	42	98	46	90	54	95	58	91	6															